

William D Jones

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8106143/william-d-jones-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

203
papers

12,269
citations

64
h-index

102
g-index

212
ext. papers

12,946
ext. citations

7.8
avg, IF

6.69
L-index

#	Paper	IF	Citations
203	Synthesis and molecular structure of half-sandwich ruthenium(II) complexes containing pyrazolyl ligands: Solvent induced geometrical change in η -scorpionate supported complex. <i>Journal of Molecular Structure</i> , 2021 , 132005	3.4	
202	Photochemical C()-C() Bond Activation in Phosphaalkynes: A New Route to Reactive Terminal Cyaphido Complexes LM-C?P. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19365-19373	16.4	3
201	The functionalization of benzene by boranes using trispyrazolylborate complexes. <i>Polyhedron</i> , 2021 , 197, 115042	2.7	0
200	First-Row Transition Metals Complexes with Fused Oxazolidine (FOX) Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1442-1448	1.3	1
199	Upgrading of Ethanol to n-Butanol via a Ruthenium Catalyst in Aqueous Solution. <i>Organometallics</i> , 2021 , 40, 1884-1888	3.8	2
198	Development of sterically hindered siloxide-functionalized polyoxotungstates for the complexation of 5d-metals. <i>Dalton Transactions</i> , 2021 , 50, 4300-4310	4.3	
197	An Iron-Based Dehydration Catalyst for Selective Formation of Styrene. <i>ACS Catalysis</i> , 2021 , 11, 10885-10891	3.1	0
196	Bisoxazoline-pincer ligated cobalt-catalyzed hydrogenation of alkenes. <i>Polyhedron</i> , 2020 , 180, 114416	2.7	1
195	Correction to Markovnikov-Selective Hydroboration of Olefins Catalyzed by a Copper N-Heterocyclic Carbene Complex. <i>Organometallics</i> , 2020 , 39, 3768-3769	3.8	
194	Reversible Concerted Metalation-Deprotonation C-H Bond Activation by [Cp*RhCl]. <i>Journal of Organic Chemistry</i> , 2019 , 84, 12960-12965	4.2	9
193	Photolysis of TpRh(CNneopentyl)(PhNCNneopentyl) in the presence of ketones and esters: kinetic and thermodynamic selectivity for activation of different aliphatic C-H bonds. <i>Dalton Transactions</i> , 2019 , 48, 10945-10952	4.3	1
192	Markovnikov-Selective Hydroboration of Olefins Catalyzed by a Copper N-Heterocyclic Carbene Complex. <i>Organometallics</i> , 2019 , 38, 3322-3326	3.8	5
191	Coordination or Oxidative Addition? Activation of N-H with [TpRh(PMe)]. <i>Inorganic Chemistry</i> , 2019 , 58, 557-566	5.1	4
190	Effect of Carboxylate Ligands on Alkane Dehydrogenation with (dmPhebox)Ir Complexes. <i>ACS Catalysis</i> , 2018 , 8, 2326-2329	13.1	10
189	Probing the Carbon-Hydrogen Activation of Alkanes Following Photolysis of TpRh(CNR)(carbodiimide): A Computational and Time-Resolved Infrared Spectroscopic Study. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1842-1854	16.4	20
188	Catalytic Upgrading of Ethanol to n-Butanol via Manganese-Mediated Guerbet Reaction. <i>ACS Catalysis</i> , 2018 , 8, 997-1002	13.1	89
187	Lewis Acid Assisted C \equiv N Cleavage of Benzonitrile Using [(dippe)NiH] ₂ . <i>Synlett</i> , 2018 , 29, 747-753	2.2	2

186	Reactivity of iPrPCPIrH ₄ with para-benzoquinones. <i>Polyhedron</i> , 2018 , 143, 209-214	2.7	6
185	Chemistry of Mn and Co Pincer Compounds 2018 , 491-518		3
184	Hydrogenation/Dehydrogenation of Unsaturated Bonds with Iron Pincer Catalysis. <i>Topics in Organometallic Chemistry</i> , 2018 , 141-174	0.6	4
183	Synthesis, characterization, and reactivity of Cp*Rh(III) complexes having functional N,O chelate ligands. <i>Journal of Organometallic Chemistry</i> , 2017 , 847, 28-32	2.3	10
182	Additive-Free Cobalt-Catalyzed Hydrogenation of Esters to Alcohols. <i>ACS Catalysis</i> , 2017 , 7, 3735-3740	13.1	90
181	An Uncanny Dehydrogenation Mechanism: Polar Bond Control over Stepwise or Concerted Transition States. <i>Inorganic Chemistry</i> , 2017 , 56, 5519-5524	5.1	18
180	Catalytic Dehydrogenative C-C Coupling by a Pincer-Ligated Iridium Complex. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8977-8989	16.4	25
179	Unexpected Solvent Effects in the Isomerization of iPrPCPIr(η -Ph ₂ CPh) to a 1-Iridaindene. <i>Israel Journal of Chemistry</i> , 2017 , 57, 968-974	3.4	0
178	C(sp ²) π Oxidative Addition of Fluorinated Aryl Ketones by iPrPCPIr. <i>Organometallics</i> , 2017 , 36, 3125-3134	4.8	6
177	Crystal structure of chlorido-bis-[(1,2,5,6- η -cyclo-octa-1,5-diene)iridium(I)]. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017 , 73, 273-277	0.7	1
176	Determination of Rhodium-Alkoxide Bond Strengths in TpRh(PMe ₃)(OR)H. <i>Inorganic Chemistry</i> , 2016 , 55, 9482-91	5.1	14
175	Formation of 5-membered metallacycles at iPrPCPIr by C-H, O-H, and C=O bond cleavage. <i>Polyhedron</i> , 2016 , 116, 38-46	2.7	8
174	Rapid oxidative hydrogen evolution from a family of square-planar nickel hydride complexes. <i>Chemical Science</i> , 2016 , 7, 117-127	9.4	23
173	Iron-Catalyzed Homogeneous Hydrogenation of Alkenes under Mild Conditions by a Stepwise, Bifunctional Mechanism. <i>ACS Catalysis</i> , 2016 , 6, 2127-2135	13.1	94
172	Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities. <i>ACS Catalysis</i> , 2016 , 6, 2590-2602	13.1	139
171	Nitrile coordination to rhodium does not lead to C-H activation. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2016 , 72, 850-852	0.8	1
170	Aqueous Hydricity from Calculations of Reduction Potential and Acidity in Water. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12911-12919	3.4	14
169	C=N Bond Cleavage Using Palladium Supported by a Dippe Ligand. <i>Organometallics</i> , 2016 , 35, 2010-2013	3.8	14

168	Synthesis, Characterization, and Reactivities of Molybdenum and Tungsten PONOP Pincer Complexes. <i>Organometallics</i> , 2016 , 35, 3124-3131	3.8	22
167	Methane Is the Best Substrate for C(sp ³)H Activation with Cp*(PMe ₃)Co(Me)(OTf): A Density Functional Theory Study. <i>Organometallics</i> , 2015 , 34, 4032-4038	3.8	9
166	Mechanistic Insights of a Concerted Metalation-Deprotonation Reaction with [Cp*RhCl ₂] ₂ . <i>Organometallics</i> , 2015 , 34, 3400-3407	3.8	40
165	Oxidative Addition of Chlorohydrocarbons to a Rhodium Tris(pyrazolyl)borate Complex. <i>Organometallics</i> , 2015 , 34, 1552-1566	3.8	19
164	Room-Temperature Carbon-Sulfur Bond Activation by a Reactive (dippe)Pd Fragment. <i>Organometallics</i> , 2015 , 34, 1716-1724	3.8	14
163	Highly Selective Formation of n-Butanol from Ethanol through the Guerbet Process: A Tandem Catalytic Approach. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14264-7	16.4	119
162	A Single Nickel Catalyst for the Acceptorless Dehydrogenation of Alcohols and Hydrogenation of Carbonyl Compounds. <i>Organometallics</i> , 2015 , 34, 5203-5206	3.8	84
161	Acceptorless, Reversible Dehydrogenation and Hydrogenation of N-Heterocycles with a Cobalt Pincer Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 6350-6354	13.1	187
160	Mechanistic Insights in the Exchange of Arylthiolate Groups in Aryl(arylthiolato)palladium Complexes Supported by a Dippe Ligand. <i>Organometallics</i> , 2015 , 34, 4574-4580	3.8	11
159	Investigation of C≡C Bond Activation of sp ² C≡C Bonds of Acetylene Derivatives via Photolysis of Pt Complexes. <i>Organometallics</i> , 2015 , 34, 2233-2239	3.8	8
158	Electrophilic C-H activation of benzene with a Shilov-inspired rhodium(III) diimine complex. <i>Journal of Organometallic Chemistry</i> , 2015 , 793, 192-199	2.3	5
157	Activation of B-H, Si-H, and C-F bonds with Tp ⁺ Rh(PMe ₃) complexes: kinetics, mechanism, and selectivity. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1258-72	16.4	37
156	Reversible catalytic dehydrogenation of alcohols for energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1687-92	11.5	105
155	Well-Defined Iron Catalysts for the Acceptorless Reversible Dehydrogenation-Hydrogenation of Alcohols and Ketones. <i>ACS Catalysis</i> , 2014 , 4, 3994-4003	13.1	291
154	Bisindolines from the reaction of 3,5-dimethoxyaniline with vicinal diones. <i>RSC Advances</i> , 2014 , 4, 1401-1411	4.1	4
153	Addition of C-C and C-H bonds by pincer-iridium complexes: a combined experimental and computational study. <i>Dalton Transactions</i> , 2014 , 43, 16354-65	4.3	16
152	Synthesis and energetics of Tp ⁺ Rh[P(OMe) ₃](R)H: a systematic investigation of ligand effects on C-H activation at rhodium. <i>Chemical Science</i> , 2014 , 5, 804-812	9.4	14
151	Exploring Oxidation of Half-Sandwich Rhodium Complexes: Oxygen Atom Insertion into the Rhodium-Carbon Bond of η ² -Coordinated 2-Phenylpyridine. <i>Organometallics</i> , 2014 , 33, 4442-4448	3.8	26

150	A molecular iron catalyst for the acceptorless dehydrogenation and hydrogenation of N-heterocycles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8564-7	16.4	357
149	Mechanistic studies of transition metal-mediated C-C bond activation. <i>Topics in Current Chemistry</i> , 2014 , 346, 1-31		16
148	Nickel(0) Addition to a Disulfide Bond. <i>Journal of Chemical Crystallography</i> , 2014 , 44, 15-19	0.5	6
147	Synthesis and characterization of a series of rhodium, iridium, and ruthenium isocyanide complexes. <i>Inorganica Chimica Acta</i> , 2013 , 407, 131-138	2.7	7
146	C≡S bond activation of thioethers using (dippe)Pt(NBE) ₂ . <i>Polyhedron</i> , 2013 , 58, 99-105	2.7	14
145	Kinetic and thermodynamic selectivity of intermolecular C-H activation at [Tp ⁺ Rh(PMe ₃)]. How does the ancillary ligand affect the metal-carbon bond strength?. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16198-212	16.4	34
144	Rhodium-carbon bond energies in Tp ⁺ Rh(CNneopentyl)(CH ₂ X)H: quantifying stabilization effects in M-C bonds. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6994-7004	16.4	43
143	Examination of a dicationic rhodium methyl aquo complex. <i>Inorganica Chimica Acta</i> , 2013 , 397, 140-143	2.7	7
142	Carbon-Oxygen Bond Activation in Esters by Platinum(0): Cleavage of the Less Reactive Bond. <i>Organometallics</i> , 2012 , 31, 5018-5024	3.8	18
141	Catalytic Arene H/D Exchange with Novel Rhodium and Iridium Complexes. <i>Organometallics</i> , 2012 , 31, 1943-1952	3.8	61
140	C-H activation of terminal alkynes by tris-(3,5-dimethylpyrazolyl)boraterhodiumneopentylisocyanide: new metal-carbon bond strengths. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9276-84	16.4	22
139	Predicting Selectivity in Oxidative Addition of C≡S Bonds of Substituted Thiophenes to a Platinum(0) Fragment: An Experimental and Theoretical Study. <i>Organometallics</i> , 2011 , 30, 4578-4588	3.8	19
138	C≡S Bond Activation of Thioesters Using Platinum(0). <i>Organometallics</i> , 2011 , 30, 5147-5154	3.8	31
137	Synthesis and reactivity of new Ni, Pd, and Pt 2,6-bis(di-tert-butylphosphinito)pyridine pincer complexes. <i>Inorganic Chemistry</i> , 2011 , 50, 9443-53	5.1	65
136	Making M≡N bonds from M≡I in (PONOP)M and (dippe)Ni systems (M=Ni, Pd, and Pt) using t-BuNC. <i>Inorganica Chimica Acta</i> , 2011 , 379, 109-114	2.7	12
135	Dinuclear Ir(III) Complex with an Unusual μ ₂ -B-allylic Bridging Ligand from the Double C≡H Activation of 2,5-Dimethylthiophene. <i>Journal of Chemical Crystallography</i> , 2011 , 41, 829-833	0.5	2
134	Synthesis and X-ray crystallographic characterization of substituted aryl imines. <i>Journal of Molecular Structure</i> , 2011 , 992, 33-38	3.4	23
133	C≡N vs C≡H Cleavage of Benzonitrile Using [(dippe)PtH] ₂ . <i>Organometallics</i> , 2011 , 30, 1523-1529	3.8	25

132	Controlling the Selectivity for C-H and C-N Bond Activation at Rhodium: A DFT Examination of Ligand Effects. <i>Organometallics</i> , 2011 , 30, 3371-3377	3.8	31
131	DFT Calculations of the Isomerization of 2-Methyl-3-butenitrile by [Ni(bisphosphine)] in Relation to the DuPont Adiponitrile Process. <i>Organometallics</i> , 2011 , 30, 547-555	3.8	25
130	C-H and C-N Bond Activation of Acetonitrile and Succinonitrile by [TpRh(PR ₃)]. <i>Organometallics</i> , 2011 , 30, 834-843	3.8	40
129	C-N Bond Activation of Benzonitrile with [Rh(dippe)] ⁺ . <i>Organometallics</i> , 2011 , 30, 5604-5610	3.8	26
128	Synthesis and characterization of cationic rhodium(I) dicarbonyl complexes. <i>Inorganica Chimica Acta</i> , 2011 , 367, 108-113	2.7	4
127	Reactivity and Regioselectivity of Insertion of Unsaturated Molecules into M-H (M = Ir, Rh) Bonds of Cyclometalated Complexes. <i>Organometallics</i> , 2010 , 29, 4593-4605	3.8	73
126	C-N Bond Activation of Aromatic Nitriles and Fluxionality of the η-Arene Intermediates: Experimental and Theoretical Investigations. <i>Organometallics</i> , 2010 , 29, 2430-2445	3.8	80
125	C-H vs C-C bond activation of acetonitrile and benzonitrile via oxidative addition: rhodium vs nickel and Cp* vs TpP(TpP= hydrotris(3,5-dimethylpyrazol-1-yl)borate, Cp* = (5)-pentamethylcyclopentadienyl). <i>Journal of the American Chemical Society</i> , 2010 , 132, 16278-84	16.4	75
124	Carbon-Sulfur Bond Activation of Dibenzothiophenes and Phenoxythiin by [Rh(dippe)(H)] ₂ and [Rh ₂ (dippe) ₂ (Cl)(H)] ⁺ . <i>Organometallics</i> , 2010 , 29, 4923-4931	3.8	24
123	Synthesis, structure, and reductive elimination in the series TpRh(PR ₃)(Ar(F))H; determination of rhodium-carbon bond energies of fluoroaryl substituents. <i>Dalton Transactions</i> , 2010 , 39, 10495-509	4.3	32
122	Dibenzometallacyclopentadienes, boroles and selected transition metal and main group heterocyclopentadienes: Synthesis, catalytic and optical properties. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1950-1976	23.2	97
121	Cobalt and Nickel Catalyzed Reactions Involving C-H and C-N Activation Reactions 2010 , 143-164		3
120	Mechanistic investigation of vinylic carbon-fluorine bond activation of perfluorinated cycloalkenes using Cp* ₂ ZrH ₂ and Cp* ₂ ZrHF. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 1122-1132	2.1	40
119	Unusual lithium coordinated platinum and rhodium hydride dimers. <i>Inorganica Chimica Acta</i> , 2010 , 363, 517-522	2.7	8
118	Selective hydrogenation of the CO bond of ketones using Ni(0) complexes with a chelating bisphosphine. <i>Journal of Molecular Catalysis A</i> , 2009 , 309, 1-11		36
117	Synthesis, characterization, and C-H/C-N cleavage reactions of two rhodiumtrispyrazolylborate dihydrides. <i>Inorganica Chimica Acta</i> , 2009 , 362, 4416-4421	2.7	22
116	Selective C-H activation of haloalkanes using a rhodiumtrispyrazolylborate complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10742-52	16.4	43
115	Thermodynamic trends in carbon-hydrogen bond activation in nitriles and chloroalkanes at rhodium. <i>Journal of Organic Chemistry</i> , 2009 , 74, 6907-14	4.2	42

114	Reactivity Differences of Pt(0) Phosphine Complexes in C≡C Bond Activation of Asymmetric Acetylenes. <i>Organometallics</i> , 2009 , 28, 6524-6530	3.8	26
113	Energetics of C-H bond activation of fluorinated aromatic hydrocarbons using a [TpRh(CNneopentyl)] complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13464-73	16.4	109
112	Mechanistic insights on the hydrodesulfurization of biphenyl-2-thiol with nickel compounds. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4120-6	16.4	44
111	C≡N Activation of Phenyl Imines and 2-Phenylpyridines with [Cp*MCln]2 (M = Ir, Rh): Regioselectivity, Kinetics, and Mechanism. <i>Organometallics</i> , 2009 , 28, 3492-3500	3.8	322
110	Carbon-Sulfur Bond Cleavage of Methyl-Substituted Thiophenes with Iridium(III). <i>Organometallics</i> , 2009 , 28, 2661-2667	3.8	11
109	Experimental and Theoretical Examination of C≡N Bond Activation of Benzonitrile Using Zerovalent Nickel. <i>Organometallics</i> , 2008 , 27, 3811-3817	3.8	89
108	Solvent effects and activation parameters in the competitive cleavage of C-CN and C-H bonds in 2-methyl-3-butenitrile using [(dippe)NiH]2. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8548-54	16.4	62
107	An efficient low-temperature route to polycyclic isoquinoline salt synthesis via C-H activation with [Cp*MCln]2 (M = Rh, Ir). <i>Journal of the American Chemical Society</i> , 2008 , 130, 12414-9	16.4	407
106	Selectivity in the oxidative addition of C-S bonds of substituted thiophenes to the (C5Me5)Rh(PMe3) fragment: a comparison of theory with experiment. <i>Inorganic Chemistry</i> , 2008 , 47, 10889-94	5.1	26
105	Oxidative Addition of the C-S Bond of Thiophene to the (C5Me5)Rh(PMe3) Fragment: A Theoretical Study Revisited. <i>Organometallics</i> , 2008 , 27, 3666-3670	3.8	22
104	A Deeper Look into Thiophene Coordination Prior to Oxidative Addition of the C-S Bond to Platinum(0): A Computational Study Using DFT and MO Methods. <i>Organometallics</i> , 2008 , 27, 53-60	3.8	25
103	Understanding selectivity in the oxidative addition of the carbon-sulfur bonds of 2-cyanothiophene to Pt(0). <i>Inorganic Chemistry</i> , 2008 , 47, 4596-604	5.1	18
102	Bond cleavage reactions in substituted thiophenes by a rhodium complex. <i>Inorganica Chimica Acta</i> , 2008 , 361, 3263-3270	2.7	12
101	Catalytic Isomerization of 2-Methyl-3-butenitrile by Nickel Systems Using Bis-diphosphinoferrocene Ligands: Evidence for Hemilability. <i>Organometallics</i> , 2007 , 26, 5766-5769	3.8	51
100	Experimental and theoretical examination of C-CN and C-H bond activations of acetonitrile using zerovalent nickel. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7562-9	16.4	124
99	Activation of Aromatic, Aliphatic, and Olefinic Carbon-Fluorine Bonds Using Cp*2HfH2. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2839-2847	2.3	51
98	The activation of alkyl cyanides using a rhodiumtrispyrazolylborate complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6957-62	11.5	35
97	Structural and dynamic properties of propane coordinated to TpRh(CNR) from a confrontation between theory and experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6939-44	11.5	33

96	Cleavage of carbon-carbon bonds of diphenylacetylene and its derivatives via photolysis of Pt complexes: tuning the C-C bond formation energy toward selective C-C bond activation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8729-35	16.4	62
95	The synthesis and structural properties of [M(dippe)(η -C ₄ H ₄ S)] complexes of Pd and Pt and comparison with their Ni analog. <i>Inorganica Chimica Acta</i> , 2006 , 359, 2798-2805	2.7	25
94	Kinetics and mechanism of dealkylation of coordinated isocyanide in Fe(PMe ₃) ₂ (t-BuNC) ₃ . <i>Canadian Journal of Chemistry</i> , 2005 , 83, 626-633	0.9	13
93	Alkane coordination selectivity in hydrocarbon activation by [TpRh(CNneopentyl)]: the role of alkane complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12315-22	16.4	61
92	On the nature of carbon-hydrogen bond activation at rhodium and related reactions. <i>Inorganic Chemistry</i> , 2005 , 44, 4475-84	5.1	123
91	Bis[η -3,5,6-tetrafluoro-4-(trifluoromethyl)benzenethiolato]bis[η -3,5-cyclooctadiene]rhodium(I). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, m2204-m2206		4
90	Structural properties and inversion mechanisms of [Rh(dippe)(EBR)] ₂ complexes. <i>Inorganica Chimica Acta</i> , 2004 , 357, 1836-1846	2.7	26
89	Carbon-hydrogen bond activation of chloroalkanes by a rhodium trispyrazolylborate complex. <i>Polyhedron</i> , 2004 , 23, 413-417	2.7	20
88	Synthesis, structure and reactivity of [Ir(dippe)(ECI)] ₂ , [Ir(dippe) ₂][Ir(dippe)Cl ₂] and [Ir(dippe) ₂]Cl. <i>Polyhedron</i> , 2004 , 23, 2959-2965	2.7	14
87	Defluorination of perfluoropropene using Cp* ₂ ZrH ₂ and Cp ₂ ZrHF: a mechanism investigation from a joint experimental-theoretical perspective. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5647-53	16.4	83
86	Cleavage of Carbon-Carbon Bonds in Alkyl Cyanides Using Nickel(0). <i>Organometallics</i> , 2004 , 23, 3997-4003	3.8	126
85	Kinetics, thermodynamics, and effect of BPh ₃ on competitive C-C and C-H bond activation reactions in the interconversion of allyl cyanide by [Ni(dippe)]. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3627-41	16.4	168
84	Alkane Complexes as Intermediates in C-H Bond Activation Reactions. <i>ACS Symposium Series</i> , 2004 , 56-69	0.4	9
83	Isotope effects in C-H bond activation reactions by transition metals. <i>Accounts of Chemical Research</i> , 2003 , 36, 140-6	24.3	428
82	Synthesis, Characterization, and Reactivity of a Rhenium Complex with a Corannulene-Based Ligand. <i>Organometallics</i> , 2003 , 22, 4829-4832	3.8	10
81	Activation of C-H bonds using Cp* ₂ ZrH ₂ : a diversity of mechanisms. <i>Dalton Transactions</i> , 2003 , 3991-3995	4.3	187
80	Cleavage of the carbon-carbon bond in biphenylene using transition metals. <i>Journal of Molecular Catalysis A</i> , 2002 , 189, 157-168		137
79	Carbon-fluorine bond activation of perfluorinated arenes with Cp* ₂ ZrH ₂ . <i>Journal of Organometallic Chemistry</i> , 2002 , 658, 132-140	2.3	54

78	Structure of [Ni(dippe)(ES)] ₂ and its reaction products. The nucleophilicity of the Ni ₂ S ₂ fragment. <i>Inorganica Chimica Acta</i> , 2002 , 330, 118-127	2.7	27
77	Mechanism of vinylic and allylic carbon-fluorine bond activation of non-perfluorinated olefins using Cp*(2)ZrH(2). <i>Journal of the American Chemical Society</i> , 2002 , 124, 8681-9	16.4	95
76	η-Coordination and C≡C Activation of Electron-Poor Arenes. <i>Organometallics</i> , 2002 , 21, 5320-5333	3.8	47
75	Formation of Tetrafluorobenzynes by β-Fluoride Elimination in Zirconium-Perfluorophenyl Complexes. <i>Organometallics</i> , 2002 , 21, 727-731	3.8	48
74	Chelating P,N versus P,P Ligands: Differing Reactivity of Donor-Stabilized Pt(η-PhC≡CPh) Complexes Toward Diphenylacetylene. <i>Organometallics</i> , 2002 , 21, 1118-1123	3.8	29
73	Cleavage of carbon-carbon bonds in aromatic nitriles using nickel(0). <i>Journal of the American Chemical Society</i> , 2002 , 124, 9547-55	16.4	217
72	Catalytic C≡C Bond Activation in Biphenylene and Cyclotrimerization of Alkynes: Increased Reactivity of P,N- versus P,P-Substituted Nickel Complexes. <i>Organometallics</i> , 2002 , 21, 1975-1981	3.8	103
71	Synthetic chemistry. The key to successful organic synthesis is. <i>Science</i> , 2002 , 295, 289-90	33.3	13
70	Thermal and Photochemical Silicon-Carbon Bond Activation in Donor-Stabilized Platinum(0)Alkyne Complexes. <i>Organometallics</i> , 2002 , 21, 1190-1196	3.8	41
69	Palladium-Catalyzed Coupling Reactions of Biphenylene with Olefins, Arylboronic Acids, and Ketones Involving C≡C Bond Cleavage. <i>Organometallics</i> , 2001 , 20, 2916-2919	3.8	39
68	Carbon-carbon bond activation in Pt(0)-diphenylacetylene complexes bearing chelating P,N- and P,P-ligands. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9718-9	16.4	67
67	Aliphatic and aromatic carbon-fluorine bond activation with Cp*(2)ZrH(2): mechanisms of hydrodefluorination. <i>Journal of the American Chemical Society</i> , 2001 , 123, 10973-9	16.4	129
66	Formation of Phenylene Oligomers Using PlatinumPhosphine Complexes. <i>Organometallics</i> , 2001 , 20, 2759-2766	3.8	49
65	Investigation of the mechanism of alkane reductive elimination and skeletal isomerization in TpPRh(CNneopentyl)(R)H complexes: the role of alkane complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7257-70	16.4	104
64	Rhodium-Catalyzed Activation and Functionalization of the C≡C Bond of Biphenylene. <i>Organometallics</i> , 2001 , 20, 5745-5750	3.8	72
63	Reversible Cleavage of Carbon-Carbon Bonds in Benzonitrile Using Nickel(0). <i>Organometallics</i> , 2000 , 19, 5544-5545	3.8	146
62	Aliphatic Carbon-Fluorine Bond Activation Using (C ₅ Me ₅) ₂ ZrH ₂ . <i>Journal of the American Chemical Society</i> , 2000 , 122, 8559-8560	16.4	90
61	Modeling the Hydrodesulfurization Reaction at Nickel. Unusual Reactivity of Dibenzothiophenes Relative to Thiophene and Benzothiophene. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7606-7617	16.4	156

60	Photochemical C-H Activation and Ligand Exchange Reactions of CpRe(PPh ₃) ₂ H ₂ . Phosphine Dissociation Is Not Involved. <i>Organometallics</i> , 1999 , 18, 1754-1760	3.8	35
59	Evidence for Methane σ -Complexes in Reductive Elimination Reactions from TpRh(L)(CH ₃)H. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3974-3983	16.4	56
58	Evidence for the Existence of a Late-Metal Terminal Sulfido Complex. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4070-4071	16.4	46
57	Insertion of Elemental Sulfur and SO ₂ into the Metal-Hydride and Metal-Carbon Bonds of Platinum Compounds. <i>Organometallics</i> , 1999 , 18, 227-234	3.8	36
56	Carbon-Fluorine Bond Cleavage by Zirconium Metal Hydride Complexes. <i>Organometallics</i> , 1999 , 18, 3170-3177	3.8	77
55	Cleavage of the Carbon-Sulfur Bonds in Thiophenes by a Binuclear Ruthenium Complex. <i>Organometallics</i> , 1999 , 18, 1786-1790	3.8	17
54	Activation of Sulfur- and Nitrogen-Containing Heterocycles by a Dinuclear Iridium Complex. <i>Organometallics</i> , 1999 , 18, 134-138	3.8	46
53	Energetics of Homogeneous Intermolecular Vinyl and Allyl Carbon-Hydrogen Bond Activation by the 16-Electron Coordinatively Unsaturated Organometallic Fragment [TpRh(CNCH ₂ CMe ₃)]. <i>Organometallics</i> , 1999 , 18, 495-505	3.8	74
52	Catalytic Carbon-Carbon and Carbon-Silicon Bond Activation and Functionalization by Nickel Complexes. <i>Organometallics</i> , 1999 , 18, 4660-4668	3.8	59
51	Catalytic Carbon-Carbon Bond Activation and Functionalization by Nickel Complexes. <i>Organometallics</i> , 1999 , 18, 4040-4049	3.8	87
50	Generation of Perfluoropolyphenylene Oligomers via Carbon-Fluorine Bond Activation by Cp ₂ Zr(C ₆ F ₅) ₂ : A Dual Mechanism Involving a Radical Chain and Release of Tetrafluorobenzene. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10327-10331	16.4	68
49	Mechanistic Investigation of Catalytic Carbon-Carbon Bond Activation and Formation by Platinum and Palladium Phosphine Complexes. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2843-2853	16.4	161
48	Deep Hydrodesulfurization in Homogeneous Solution: Access to a Transition-Metal Insertion Complex of 4,6-Dimethyldibenzothiophene. <i>Organometallics</i> , 1998 , 17, 3411-3413	3.8	65
47	Synthesis and Reactions of Cp-Linked Phosphine Complexes of Rhodium. <i>Organometallics</i> , 1998 , 17, 3889-3893	3.8	33
46	Carbon-Hydrogen and Carbon-Carbon Bond Activation of Cyclopropane by a Hydridotris(pyrazolyl)borate Rhodium Complex. <i>Organometallics</i> , 1998 , 17, 4484-4492	3.8	49
45	¹¹ B NMR: A New Tool for the Determination of Hapticity of Tris(pyrazolyl)borate Ligands. <i>Organometallics</i> , 1998 , 17, 5148-5152	3.8	79
44	Catalytic Hydrogenolysis of Biphenylene with Platinum, Palladium, and Nickel Phosphine Complexes. <i>Organometallics</i> , 1998 , 17, 4784-4794	3.8	79
43	Insertion of SO ₂ into the Metal-Carbon Bonds of Rhodium and Iridium Compounds, and Reactivity of the SO ₂ -Inserted Species. <i>Organometallics</i> , 1998 , 17, 1420-1425	3.8	15

42	Structure of Metallathiacycles: Planar vs Nonplanar Geometries. A Theoretical and Experimental Investigation. <i>Organometallics</i> , 1997 , 16, 3819-3827	3.8	30
41	Hydrodesulfurization of Thiophene and Benzothiophene to Butane and Ethylbenzene by a Homogeneous Iridium Complex. <i>Organometallics</i> , 1997 , 16, 1912-1919	3.8	52
40	Carbon-Selenium Bond Cleavage by a Rhodium Complex. <i>Organometallics</i> , 1997 , 16, 2751-2753	3.8	22
39	Mechanism of Carbon-Fluorine Bond Activation by (C ₅ Me ₅)Rh(PMe ₃) ₂ . <i>Journal of the American Chemical Society</i> , 1997 , 119, 7734-7742	16.4	127
38	C-C Bond Activation in Biphenylene. Synthesis, Structure, and Reactivity of (C ₅ Me ₅) ₂ M ₂ (2,2'-Biphenyl) (M = Rh, Co). <i>Organometallics</i> , 1997 , 16, 2016-2023	3.8	99
37	Room-Temperature Desulfurization of Dibenzothiophene Mediated by [(i-Pr) ₂ PCH ₂] ₂ NiH ₂ . <i>Journal of the American Chemical Society</i> , 1997 , 119, 10855-10856	16.4	151
36	Homogeneous models of thiophene HDS reactions. Selectivity in thiophene C-S cleavage and thiophene reactions with dinuclear metal complexes. <i>Polyhedron</i> , 1997 , 16, 3115-3128	2.7	57
35	Steric and Electronic Effects on the Insertion of a Rhodium Phosphine Complex into the C-S Bond of Substituted Dibenzothiophenes. Homogeneous Model for the Hydrodesulfurization Process. <i>Organometallics</i> , 1996 , 15, 2905-2917	3.8	66
34	Regiochemical Selectivity in the Carbon-Sulfur Bond Cleavage of 2-Methylbenzothiophene: Synthesis, Characterization, and Mechanistic Study of Reversible Insertion into a C-S Bond. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11704-11709	16.4	49
33	Bond Cleavage Reactions in Oxygen and Nitrogen Heterocycles by a Rhodium Phosphine Complex. <i>Organometallics</i> , 1995 , 14, 855-861	3.8	39
32	Carbon-sulfur bond cleavage by cobalt. Reaction of Cp ₂ Co(C ₂ H ₄) ₂ with dibenzothiophene. <i>Journal of Organometallic Chemistry</i> , 1994 , 472, 311-316	2.3	45
31	Hydrodesulfurization of thiophene to butadiene and butane by a homogeneous iridium complex. <i>Journal of the American Chemical Society</i> , 1994 , 116, 198-203	16.4	88
30	Carbon-Sulfur Bond Cleavage in Thiophene by Group 6 Metallocenes. <i>Organometallics</i> , 1994 , 13, 4448-4452	3.8	46
29	Catalytic Hydrogenolysis of an Aryl-Aryl Carbon-Carbon Bond with a Rhodium Complex. <i>Journal of the American Chemical Society</i> , 1994 , 116, 3647-3648	16.4	110
28	Functionalization of benzylic carbon-hydrogen bonds. Mechanism and scope of the catalytic synthesis of indoles with [Ru(dmpe) ₂]. <i>Organometallics</i> , 1994 , 13, 385-396	3.8	71
27	η^2 -Coordination and carbon-fluorine activation of hexafluorobenzene by cyclopentadienylrhodium and -iridium complexes. <i>Journal of the American Chemical Society</i> , 1993 , 115, 1429-1440	16.4	98
26	Photolysis of TpRh(CN-neopentyl)(η^2 -PhN:C:N-neopentyl) in alkanes and arenes: kinetic and thermodynamic selectivity of [TpRh(CN-neopentyl)] for various types of carbon-hydrogen bonds. <i>Journal of the American Chemical Society</i> , 1993 , 115, 554-562	16.4	112
25	Control of η^2 -coordination vs. carbon-hydrogen bond activation by rhodium: the role of aromatic resonance energies. <i>Journal of the American Chemical Society</i> , 1993 , 115, 7685-7695	16.4	89

24	Multiple η^2 -arene coordination. Structure and isomerism of naphthalene complexes of rhodium phosphine [(C5Me5)Rh(PMe3)]. <i>Organometallics</i> , 1992 , 11, 871-876	3.8	37
23	A model for homogeneous hydrodesulfurization. The importance of η^2 -coordination and sulfur coordination in carbon-hydrogen and carbon-sulfur bond cleavage reactions of thiophene. <i>Journal of the American Chemical Society</i> , 1992 , 114, 151-160	16.4	145
22	Synthesis and structure of rhodium complexes containing a photolabile η^2 -carbodiimide ligand. 1,3-Dipolar cycloaddition of phenyl azide to TpRh(CNR) ₂ [TpP=hydrotris(3,5-dimethylpyrazolyl)borate]. <i>Organometallics</i> , 1992 , 11, 1496-1505	3.8	45
21	Mechanism of formation of carbon-carbon bonds in the ring opening and coupling of thiophene by rhodium complex, (C5Me5)Rh(C2H4) ₂ . <i>Journal of the American Chemical Society</i> , 1992 , 114, 9851-9858	16.4	57
20	Thiophene carbon-sulfur bond cleavage by cobalt. Synthesis, structure, and dynamics of [(C5Me5)Co] ₂ (C4H4S). <i>Organometallics</i> , 1992 , 11, 2698-2700	3.8	49
19	First examples of homogeneous hydrogenolysis of thiophene to 1-butanethiolate and ethylthioacetone ligands: synthesis and reactivity of (η^4 -C4H5S)ReH ₂ (PPh ₃) ₂ . <i>Journal of the American Chemical Society</i> , 1992 , 114, 10767-10775	16.4	34
18	Mechanism of benzene loss from TpRh(H)(Ph)(CN-neopentyl) in the presence of neopentyl isocyanide. Evidence for an associatively induced reductive elimination. <i>Journal of the American Chemical Society</i> , 1992 , 114, 6087-6095	16.4	53
17	Dimerization of Thiophene to Give a Linear S(CH) ₈ S Fragment with [(C5Me5)Rh(C2H4) ₂]. <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 357-358		50
16	Crystal Structure and Chemical Reactivity of Heme Phenoxide Adducts. <i>Journal of Coordination Chemistry</i> , 1991 , 23, 351-359	1.6	16
15	Sequential arene coordination and C \equiv N insertion in the reactions of (β -pentamethylcyclopentadienyl)rhodium complexes with hexafluorobenzene. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 264-266		64
14	Control of η^2 -arene coordination and C \equiv N bond activation by cyclopentadienyl complexes of rhodium. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 266-269		33
13	Ring migration reactions of (C5Me5)Rh(PMe3)H ₂ . Evidence for η^3 slippage and metal-to-ring hydride migration. <i>Organometallics</i> , 1991 , 10, 1577-1586	3.8	43
12	Synthesis and structures of rhodium isocyanide complexes containing an η^2 -hydrotris(3,5-dimethylpyrazolyl)borate ligand. <i>Inorganic Chemistry</i> , 1991 , 30, 778-783	5.1	31
11	Insertion of rhodium into the carbon-sulfur bond of thiophene. Mechanism of a model for the hydrodesulfurization reaction. <i>Journal of the American Chemical Society</i> , 1991 , 113, 559-564	16.4	128
10	Preparation and characterization of rhodium pentamethylcyclopentadienyl isocyanide complexes, (C5Me5)Rh(CNR) ₂ and [(C5Me5)Rh(CNR)] ₂ complexes. <i>Inorganic Chemistry</i> , 1990 , 29, 1505-1511	5.1	25
9	Direct observation of η^2 -arene complexes of [(C5Me5)Rh(PMe3)]. <i>Journal of the American Chemical Society</i> , 1989 , 111, 8722-8723	16.4	49
8	Comparative reactivities of hydrocarbon carbon-hydrogen bonds with a transition-metal complex. <i>Accounts of Chemical Research</i> , 1989 , 22, 91-100	24.3	403
7	Preparation and C-N cleavage reactions of bis[(dimethylphosphino)ethane]ruthenium isocyanide complexes. <i>Organometallics</i> , 1986 , 5, 1823-1829	3.8	38

6	Isotope effects in arene carbon-hydrogen bond activation by [(C5Me5)Rh(PMe3)]. <i>Journal of the American Chemical Society</i> , 1986 , 108, 4814-4819	16.4	98
5	Carbon-hydrogen bond activation by ruthenium for the catalytic synthesis of indoles. <i>Journal of the American Chemical Society</i> , 1986 , 108, 5640-5641	16.4	90
4	The mechanism and thermodynamics of alkane and arene carbon-hydrogen bond activation in (C5Me5)Rh(PMe3)(R)H. <i>Journal of the American Chemical Society</i> , 1984 , 106, 1650-1663	16.4	277
3	Alkane carbon-hydrogen bond activation by homogeneous rhodium(I) compounds. <i>Organometallics</i> , 1983 , 2, 562-563	3.8	139
2	Mechanism of arene carbon-hydrogen bond activation by (C5Me5)Rh(PMe3)(H)Ph. Evidence for arene precoordination. <i>Journal of the American Chemical Society</i> , 1982 , 104, 4240-4242	16.4	146
1	Chemical reduction of η^5 -cyclopentadienyldicarbonylrhodium. Crystal and molecular structure of an anionic trinuclear rhodium cluster with "semi-triple-bridging" carbonyl ligands. <i>Journal of the American Chemical Society</i> , 1978 , 100, 6770-6772	16.4	21